

**VOL. 18 NO. 5**



**OCTOBER 1988**

# **VICTORIAN ENTOMOLOGIST**



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**News Bulletin of  
The ENTOMOLOGICAL  
SOCIETY of VICTORIA**



## The ENTOMOLOGICAL SOCIETY of VICTORIA (Inc.)

### MEMBERSHIP

Any person with an interest in entomology shall be eligible for Ordinary Membership. Members of the Society include professional, amateur and student entomologists, all of whom receive the Society's News Bulletin, the Victorian Entomologist.

### OBJECTIVES

- The aims of the Society are :
- (a) to stimulate the scientific study and discussion of all aspects of entomology,
  - (b) to gather, disseminate and record knowledge of all identifiable Australian insect species,
  - (c) to compile a comprehensive list of all Victorian insect species and
  - (d) to bring together in a congenial but scientific atmosphere all persons interested in entomology.

### MEETINGS

The Society's meetings are held at Clunios Ross House, National Science Centre, 191 Royal Parade, Parkville, Victoria, at 8 pm on the third Friday of even months, with the possible exception of the December meeting which may be held earlier. Lectures by guest speakers or members are a feature of many meetings at which there is ample opportunity for informal discussion between members with similar interests. Forums are also conducted by members on their own particular interest so that others may participate in discussions.

### SUBSCRIPTIONS

Ordinary Member .....	\$10.00
Country Member .....	\$ 8.00 (100 km + from GPO)
Student Member .....	\$ 5.00
Associate Member .....	\$ 2.00 (no magazine)

No additional fee is payable for overseas posting by surface mail of the News Bulletin. Associate Members, resident at the same address as, and being immediate relatives of an Ordinary Member, do not automatically receive a copy of the Society's publications but in all other respects rank as Ordinary Members.

Cover illustration by W.N.B. Quick.

Cyria imperialis (Fabricius), Banksia Jewel Beetle (Buprestidae).

MINUTES OF THE GENERAL MEETING 19 AUGUST 1988

The President, K. Walker, opened the meeting at 8.05 pm.

Apologies: R. & J. Field, D. & N. Stewart

Present: G. & J. Burns, M. Braby, P. Carwardine, K. Clark, M. Connors, M. & P. Coupar, D. Crosby, F. Douglas, I. Faithfull, R. Gordon, D. & J. Holmes, M. Hunting, P. Kelly, R. Mathews, T. New, J. Reid, S. Smith, R. Vagi, B. Vardy, J. & K. Wortz

Minutes of the April General Meeting (Vio. Ent. 18:39) were passed (Crosby/G. Burns).

K. Walker then introduced the speaker, M. Braby to talk on 'The Butterfly Fauna of La Trobe University'. Michael gave a wide-ranging talk, explaining the conservation value of remnant and regenerated vegetation, in particular the La Trobe Wildlife Reserve, Gresswell Forest and Gresswell Hill. The talk was illustrated by numerous excellent slides, many taken by M. Coupar. After considerable discussion, a vote of thanks was proposed by M. Hunting.

Correspondence: Detailed and received.

Treasurer's Report: G. Burns reported credit balances of \$2294.50 (General Account), \$1727.57 (Memorial Fund) and \$421.61 (Junior Encouragement Fund). There are at present 85 financial members. Accepted (Carwardine/Clark).

D. Crosby, invited by the President, reported that the Society is now incorporated, effective from 11 August 1988.

- General Business: a) F. Douglas and M. Braby (i) report of a freshly fallen long leaved box tree from One Tree Hill (Christmas Hills) heavily attacked by larvae of Cerambycidae. Comments on the methods by which cockatoos 'listen' for larvae in timber before excavating to discover them. (ii) a large pupal web of the imperial white (Delias harpalyce), with comments on pupal mortality.
- b) D. Crosby (i) a new book on Australian Tropical Butterflies, with many excellent colour photographs (authors: Peter Valentine, Clifford and Dawn Frith). (ii) noted that the Commissioner for the Environment had recently sought submissions on conservation of aquatic environments.
- c) D. Holmes: comment on recent TV programme on the release of insects to control Peterson's Curse. Several members commented

on the controversy over this case of prospective biological control.

- d) Ralph Gorden, recently arrived in Melbourne from Idaho, was welcomed by the President and spoke briefly about his interests in surveys to detect introduced pests, and trap-nesting bees.
- e) K. Walker commented on the importance of correct identification of beetles found in houses. Some recent cases of misidentification by pest control companies had resulted in house-holders making unnecessary expensive renovations (such as floorboard replacements).

The meeting closed at 9.35 pm.

T. New,  
Hon. Secretary.

#### MINUTES OF THE COUNCIL MEETING 16 SEPTEMBER 1988

A Vice-President, M. Hunting, opened the meeting at 8 pm.

Apologies: K. Walker, R. & J. Field.

Present: G. & J. Burns, P. Carwardine, D. Crosby,  
I. Faithfull, P. Kelly, T. New

Minutes of the July Council meeting (Vic. Ent. 18:58-59) were passed with one correction: 'D'Arbrern' should read 'D'Abrera' (G. Burns/Crosby).

Correspondence: Detailed and received.

Treasurer's Report: G. Burns reported credit balances of \$2121.06 (General Acct.), \$1744.12 (Le Souëf Memorial Fund) and \$421.61 (Junior Encouragement Fund). There are at present 90 financial members.

Editor's Report: I. Faithfull raised a number of matters.  
i) Erratic billing from printery. Treasurer to check this.  
ii) The need for a policy for commercial (non-member) sale of Victorian Entomologist through agents. After considerable discussion on this, and on related costs of production of the News Bulletin, the following motions were passed.  
(a) That the Victorian Entomologist be offered for sale to institutions and non-members of the Society for \$15/year,

with a 20% agency discount to apply.  
(Now/Carwardine).

(b) That the cover price be changed to read  
\$2.50 from the first issue of Vol.19.

(Crosby/Kelly).

(c) That back issues to members would cost  
the cover price. (Kelly/J. Burns).

iii) A cover illustration is needed for  
1989, preferably of a Victorian insect,  
without the state map background. D. Crosby  
to approach N. Quick.

iv) Current indexing policy - generally  
agreed to be very useful.

v) Representation of Society publications  
1. State Library 2. Society library. Sec-  
retary to contact State Librarian to check  
this.

vi) Review copies of two books on butter-  
flies had been received and passed on to  
potential reviewers.

vii) Need for articles for the Victorian  
Entomologist. Agreed that speakers to Soc-  
iety meeting should be asked to provide  
an article or synopsis of their talk.

viii) List of members to appear in the  
December issue.

Received (Kelly/Corwordine).

#### Excursions:

Several possible excursion venues were sug-  
gested. After discussion, agreed to sched-  
ule and excursion to the Mont Park/Cresswell  
area either on December 10 or 11; date to  
be decided at October general meeting.  
(Kelly/J. Burns).

General Business: 1) Programme. Schedule of next few meetings  
discussed. The December member's night  
(December 9) will be followed by social  
gathering for which the charge will be  
\$3/head.

ii) Incorporation. D. Crosby tabled correspon-  
dence with the Commissioner of Taxation.  
It has been advised that Clause 13 of the  
Constitution needs amendment in order to  
ensure tax exempt status for Society income.  
An extra-ordinary general meeting is to be  
held on December 9 to discuss this. (See  
notice on page 82 of this issue).  
(Crosby/New).

iii) Fauna and Flora Guarantee. Secretary to  
write to the Minister asking for clarifi-  
cation of how the Guarantee will function  
for invertebrates, and how specimens  
already in collections may be legally  
affected.

iv) Junior Encouragement Fund. Lack of response

to letters to educational bodies seeking avenues for constructive use of this fund was disappointing. Further discussion held on its possible disbursement.

- v) Terms of reference for the Conservation Sub-Committee are being formulated.
- vi) I. Faithfull suggested that a letter be written to the Minister for Science expressing the concern of amateur entomologists at recent cuts in funding to the CSIRO Division of Entomology.

The meeting closed at 10 pm.

T. Now,  
Hon. Secretary

ASSOCIATIONS INCORPORATION ACT 1981

Section 7

Registered no A0016515Z

CERTIFICATE OF INCORPORATION

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THIS IS TO CERTIFY THAT

THE ENTOMOLOGICAL SOCIETY OF VICTORIA INC.

IS ON AND FROM THE 11TH AUGUST 1988

INCORPORATED UNDER THE ASSOCIATIONS INCORPORATION ACT 1981

Given under my hand at Melbourne this 11TH DAY OF AUGUST 1988.

*A. Hamilton*

Deputy/Assistant Registrar of Incorporated Associations

THE ENTOMOLOGICAL SOCIETY OF VICTORIA (INC.)

NOTICE OF EXTRA-ORDINARY GENERAL MEETING

NOTICE is hereby given that an Extra-ordinary General Meeting of the Members of the Society will be held at Clunies Ross House, National Science Centre, 191 Royal Parade, Parkville, at 8 pm on Friday, 9th December, 1988.

AGENDA

To discuss and if thought fit, pass the following special resolution:

" THAT Clause 13 of the Constitution be amended to read as follows:

DISSOLUTION.

The Society shall not be dissolved or its name changed without the consent of three quarters of the members present at an extra-ordinary General Meeting of the members, called for that purpose, and of which 21 days written notice has been given. If, on dissolution, there remains, after satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed amongst the members of the Society but shall be given or transferred at the sole discretion of the Council to one or more other incorporated societies, each of which has similar objects and prohibits the distribution of its income and property amongst its members."

On behalf of the Council,

K.L.Walker, PRESIDENT. 21st October, 1988.

COMMENT

This amendment, which more precisely spells out how the Council is permitted to treat any remaining assets left at dissolution, has been insisted upon by the Commissioner of Taxation to enable us to continue to enjoy tax exempt status for our income. Your Council feels that it is essential to retain exempt status and therefore urges members to vote in favour of this resolution.

The words deleted from the present clause, (after the first sentence, which is retained unaltered), are as follow:  
"The proceeds arising from the winding up of the Society, after all costs and debts have been paid, shall be distributed amongst such charitable and/or scientific institutions, and in such amounts, as the Council in their absolute discretion, shall decide. No member shall be entitled to share in, or receive any benefit from, such distribution".

## CONSERVATION NEWS

### LCC Malilee Area Review Proposed Recommendations

The latest Land Conservation Council report was released in mid September and is open for public comment until 21 November. Important recommendations include the removal of dry land grazing from public lands by 1999, a new 610,000 ha national park in the Sunset Country with a corridor to the Murray River, additions of over 190,000 ha to Wyperfeld National Park including Pine Plains and much of the central Big Desert and numerous smaller reservations.

### LCC Wildernoss Investigation

The Council has given notice that it is conducting an investigation of wilderness and will make recommendations on the identification, reservation and use of wilderness by 30 September 1990. However as is the usual practice a descriptive report will first be published and public comments will be invited and considered.

### Flora and Fauna Guarantee

The Department of Conservation, Forests and Lands' Flora and Fauna Guarantee Newsletter Special Budget Edition (election edition?) promised that annual funding of more than \$1.4 m has been committed to implement the Act, \$9.7 m will be spent on flora and fauna programmes, the full process of the Guarantee will be operational by early 1989, 28 additional staff will be appointed to CFL Regions and Policy Divisions to work on the Guarantee, all databases collected by CFL over many years will be computerised, etc. etc.

### CFL Funding

For the first time since the Labor government took office the funding for the Dept. shows a real increase. Included are 22 new land protection advisers to work with problems such as pests and noxious weeds, an increase of nearly 20% in National and State Park budgets reflecting the doubling of their area in the past 6 years, \$1.5 m to set up new parks including provision for 27 new rangers and so on.

A NOTE ON ONE OF OUR EARLY COLLECTORS  
RICHARD ERNEST TREBILCOCK, 1880-1976

D. F. Crosby, 74 Gipps Street, East Melbourne, 3002.

R. E. Trebilcock was well known as an entomologist in Kerang, Vic. He moved there from Geelong in 1904 and developed a strong interest in birds, particularly the migratory species. This interest encouraged him to visit Siberia, Russia, to study the nesting habits of those birds, mainly species which also came to Australia.

On return to Kerang in 1906, he built a house, married, and set up a legal practice in the town. About this time he developed an interest in insects and was instrumental in locating the colonies of the butterfly called the cynone skipper, Anisynta cynone (Hew.), in the district. The race grises was described by Waterhouse in 1932 from specimens most probably collected by Trebilcock at Kerang together with others by J. A. Kershaw at nearby Gunbower in the 1890's.

In 1914 he joined the armed forces and served in France, where he was awarded the Military Cross. Unfortunately, his insect collection was destroyed by pests during the war and on return from overseas he turned his attention to the group of Hydroids (Ph. Coelenterata). He amassed a valuable slide collection of these minute primitive animals, which was donated to the Museum of Victoria by his son, Arthur, in 1980.

Despite his concentration on the Hydroids, R. E. T. still kept an interest in insects, particularly Hymenoptera, which he often collected locally with Alex. Burns and Charles Oke from the Museum. In the 1950's and early 1960's he sent many wasps and bees he had collected to the Museum. Like many other keen entomologists he had fascinating rambles in the bush with Burns and others, but did not return to collecting butterflies, other than spasmodically for friends wanting A. cynone.

It was my pleasure, in the company of 'Ras Wilson, to meet R.E.T. at Kerang in early April, 1955 and to enjoy his hospitality and, later in the day, to catch A cynone on the Michelmas daisies in his garden. He gave me some set specimens, caught in March 1949 and March 1953, which I still have in my collection.

His son, Arthur, still lives in Kerang with his wife and remembers the collecting days they all had with Burns, Oke and others to places such as Mt. Hope.

R.E.T. practised as a solicitor at Kerang all his life and was, it is believed, the oldest practitioner still active in Victoria just prior to his death on 2nd June, 1976 at the ripe age of 96 years.

I am indebted to his son, Arthur, and grandson, Philip, and the latter's wife, Jenny, for biographical details.

#### A NOTE ON THE RARE BUTTERFLY FROM BAUPLE

Kelvyn Dunn, Flat 1, Island View Villas, Munger Rd., Maryborough,  
Queensland, 4650

The Maryborough-Hervey Bay Chronicle (Rare butterfly found near Bauple, Page 6, Thursday 14 July 1988) recorded the collection of Delias harpalyce (Donovan) from near Bauple, on 12 July 1988. The National Parks and Wildlife Service office in Maryborough, Queensland, identified the species as the above and claimed this to be the first officially recorded from this area of Queensland.

I examined the specimen at the National Parks and Wildlife Service office and found it to be a damaged female of Delias nigrina (Fabricius), a common winter species in coastal Queensland. Bauple is about 30 km south of Maryborough.

## BOOK REVIEW

### Australian Tropical Butterflies

By Peter Velentine, and Clifford and Dawn Frith

Tropical Australia Graphics, Paluma, North Queensland, 1988

This book is the most recent in a colourful series devoted to Australian tropical wildlife, and has the rather outstanding feature in these days of being produced entirely in Australia. Apart from his professional occupation in Geography at the James Cook University, Townsville, the author is an experienced lepidopterist with much research and a number of articles and papers about butterflies to his credit. He has contributed eight of the 129 photographs in this book; a further six are attributed to Peter Samson and Australian Nature Transparencies picture library. The remainder of the photographs are by noted nature photographers Clifford and Dawn Frith, using live material throughout and thus contributing to the unique nature of the book.

After an interesting preface the author devotes a single page to the distribution of butterflies and other aspects such as their biology and behaviour. In a book of this format, where the emphasis is on colour photography, this must be considered adequate as these subjects are enormous. For those seeking more information in these fields an excellent list of suggested further reading is provided at the end of the book. The 66 pages which follow are a delightful experience, with large, high quality photographs of 118 tropical species, each accompanied by a brief text and a distribution map. Some previously unpublished distribution and life history data are included here. The common name is emphasised - a desirable trend in popular books - and the technical name and the relevant family is given for each. The use of subspecific names has, quite rightly, been avoided in this book. An interesting arrangement is the division of the species into six distribution groups according to the habitats in which they are most likely to be found - Upland Forest, Lowland Rainforest, Rainforest Edge and Vine Thicket, Coast and Wetlands and Urban.

My favourite photograph occupies a full page and is of the *nigridius jezabel*, *Delias annia*, on page 6 but then I am partial to this genus with those remarkable patterns and colours on the undersides of its many species. Only three of the photographs are of early stages and perhaps this could be considered an omission. The book concludes with an index of common names. The author, photographers and publishers must be commended on the quality of this excellent book. At around \$12 it must have a broad appeal that will not be confined to naturalists.

Robert Fisher

THE BIG DESERT - RED BLUFF AND THE BORDER TRACK

3 TO 7 NOVEMBER 1984. PART 3.

Ian Faithfull, 58 Neville Street, Box Hill South, Vic., 3128

A clear sky in the morning of 5 November heralded a fine day. The south-west to west wind was cool but the afternoon became warm and many insects became active. Conspicuous amongst these was the small, long-legged chafer Phyllotocus erythropterus, which was observed drinking the nectar from flowers of Leptospermum myrsinoides and Eucalyptus incrassata, but was not seen on the sparser flowers of L. coriaceum. It is a black species with orange-red elytra and was present in fairly high numbers. On one occasion a single large bush of Silky Tea-tree (myrsinoides) sheltered from the wind by a Caillitria harboured eight or ten of the beetles. At about 2.30 pm there were one or two individuals on every second or third plant of this Tea-tree in a small area near the Red Bluff camp. By 5.50 pm all had disappeared. One male and four female specimens were collected of which three of the females are intermediate in form between erythropterus and P. kingii of which only females were known (Britton, 1957). This makes it likely that kingii is a synonym of erythropterus (Britton, pers.comm., March 1985).

The black Colpochila pulchella was taken in flight at 1 pm at the Red Bluff camp. Another was found at light on November 7. It is known from 3 other localities in north-west Victoria: Hattah Lakes National Park, 20 km N. of Tempy and Wyperfeld National Park. (Britton, 1986). My specimens were determined by Britton. Another of the same genus, C. bicolor, was taken in flight during the middle of the day, one specimen on 5 and one on 6 November. The specific name refers to the contrasting black pronotum and the slightly iridescent, biscuit coloured elytra. This species has been found eating Leptospermum leaves at Hattah (G. Anderson) and is known from Wyperfeld also (Britton, 1986). Britton also records Victorian specimens from 15 km S. of Pinaroo, this actually being in South Australia, and the Big Desert, 35 deg. 30'S., 142 deg. 19'E., this lat.-long. actually being to the east of Wyperfeld and remote from what is generally known as the Big Desert. The 142 deg. should probably be 141 deg. Britton (1986) states that Colpochila species are crepuscular or nocturnal in habit. My mid-day records are thus anomalous.

Although pitfall traps baited with chicken bones and human excrement, intended to trap dung beetles failed to do so, they did get Simodontus rotundipennis (Carabidae: Pterostichinae), a small pretty beetle which Oke found under rubbish at Hattah Lakes in 1924 (Oke, 1926). I found it to be common at two sites examined on the Border Track in the Big Desert Wilderness Area.

The vertebrate pitfall traps in the south-west corner of the Wilderness Area captured a number of the larger carabids between 4 and 6 November. Since they are predators, it is wise

to visit the traps early and to keep in mind that some of the smaller insects have almost certainly been eaten. Species found included Caronum elegans, a fine green beetle, "well deserving its name" and taken in burrows from March to November by Goudie (1909); Scaraphitos sp. and two other species of Caronum, as well as a species of Gnathoxys.

Large terrestrial, nocturnal, fossorial, flightless Carabidae, Neocaronum elongatum (loft) and Caronum elegans.

(Actual length about 23 mm)



The remains of a specimen of Diaphonia satolles, one of the large orange and black rosechafters was found under a malloo tree about 1.5 km west of Red Bluff.

To be continued.

#### References

- Britton, E.B., 1957. A Revision of the Australian Chafters (Coleoptera: Scarabaeidae: Melolonthinae). Volume 1. British Museum (Natural History), London.
- Britton, E.B., 1986. A revision of the Australian Chafters (Coleoptera: Scarabaeidae: Melolonthinae) Vol. 4. Tribe Liparetrini: Genus Colpochila. Aust. J. Zool. Suppl. Ser. No. 118, 1-135.
- Goudie, J.C., 1909. Notes on the Coleoptera of north-western Victoria. Part 1. Victorian Naturalist 26:39-47.
- Oke, C., 1926. Two entomologists in the Mallee. Victorian Naturalist 42:279-94.

## MORE BUTTERFLIES FROM YANAKIE AND CORRECTIONS TO PREVIOUS NOTE

Ian Faithfull, 58 Neville Street, Box Hill South, Vic., 3128

I made some mistakes in my 1984 note. Mentions of Eucalyptus ovata should have been of E. obliqua, Mossmate Stringybark. Candalides hyacinthus should have read hyacinthinus. A recent map calls my Duck Point, Townsend Point, and my "unamed sandy point" (sic) Duck Point.

Since November 1984 I have added 3 species to the 15 previously noted. These are Hosperilla idothoa and Hosporilla picta both recorded as adults in December 1984 and February 1985, and Nacaduba biocellata, December 1985.

### References

Butterflies from the Foley Road area, Yanakie, South Gippsland, Victoria. Victorian Entomologist 14(6):64-6, December 1984

Wilsons Promontory National Park Outdoor Leisure Map, Division of Survey and Mapping, Dept. of Property and Services, Government of Victoria, 1988.

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### BUTTERFLIES AND MYTHOLOGY NO. 7

- Glaucus - King of Corinth. Son of Sisyphus and Merope, father of Belierophon. Was torn to pieces by his own mares because he scorned the power of Aphrodite.
- Glaucus (2)- Grandson of Belierophon.
- Glaucus (3)- Son of Minos and Pasiphae. He was drowned in a cask of honey, but a serpent revealed a herb, which restored him to life!

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### Wanted

Contributions to this News Bulletin. Photographs, drawings, diagrams, lists, reviews, tips, advice, reports, photocopies of contents pages, and all useful tidbits. Also criticism and feedback. Plus the usual articles and notes. If you need assistance get on the phone to any of our office bearers.

# 1988 IUCN RED LIST OF THREATENED ANIMALS

Prepared by the IUCN Conservation Monitoring Centre, Cambridge, UK, in association with the International Council for Bird Preservation, with the support of the David Shepherd Charitable Foundation.

International Union for Conservation of Nature and Natural Resources, Gland Switzerland, February 1988

xviii + 154 pp., A\$12.25

This book is essentially a list of animals known to IUCN to be threatened with extinction. The goal, as the preamble states, is "to obtain action for these listed species", and as importantly, "to ensure the steady build up and maintenance of the database for all the 'conservationally' unknown species which we need to include in our concerns".

2125 invertebrates are listed, including 56 Australian insects, mainly from Tasmania, plus some Tasmanian Onychophorans. These local creatures are listed below with the IUCN categories and additions by me in brackets. The categories are as follows:

- Extinct (Ex)** not definitely located in the wild during the last 50 years
- Endangered (E)** in danger of extinction and unlikely to survive if causal factors continue
- Vulnerable (V)** believed likely to move into the endangered category in the near future if causal factors continue
- Rare (R)** small world population not at present endangered or vulnerable but at risk
- Indeterminate (I)** endangered, vulnerable or rare but too little information to say which
- Insufficiently known (K)** suspected to belong to one of the above categories
- Threatened (T)** used for taxa comprised of several sub-taxa with differing status categories
- Commercially threatened (CT)** populations threatened as a sustainable commercial resource

## Collembola (Springtails) Nannuridae

- Acanthanura dendyi I Tasmania
- Acanthanura n.sp. "mesibovi" I Tasmania
- Megalanura tasmaniae I Tasmania
- Womersleymeria bicornis I Tasmania (Vic?)
- Womersleymeria n.sp. "iresoni" I Tasmania
- Womersleymeria n.sp. "zachariae" I Tasmania

## Ephemeroptera Siphonuridae

- Tasmanophlebia lacus-coerulei Large Blue Lake R Aust (Mt Kosciusko NSW)  
Mayfly

## Odonata Hemiphlebidae

- Hemiphlebia mirabilis Small Damselfly E Australia  
Lestidae (Wilsons Prom, V)
- Austrolestes minjerriba E Australia

Protoneuridae	
• <u>Nosoaticta pilbara</u>	E Australia (NW WA)
Coenagrionidae	
• <u>Coenagrion brisbanensa</u>	V Aust (SE Qld.)
Gomphidae	
• <u>Antipodogomphus hodgekini</u>	E Australia (NW WA)
• <u>Ictinogomphus dobsoni</u>	E Australia (NW WA)
Neopetalidae	
• <u>Archipetelia auriculata</u>	I Tasmania
Petaluridae	
• <u>Petalura pulcherrima</u>	V Aust (NE Qld., Capa York Pen.)
Aeshnidae	
• <u>Acanthaeshna victoria</u>	V Aust (SE?? Vic?)
• <u>Austroeschna hardyi</u>	I Tasmania
Corduliidae	
• <u>Austrocordulia territorie</u>	E Aust (N NT)
• <u>Synthemis macrostigma orientalis</u>	I Tasmania
• <u>Synthemopsis gomphomacromioides</u>	I Tasmania
Orthoptera	
Rhaphidophoridae	
• <u>Tasmanoplectron isolatum</u> (Cave cricket)	I Tasmania
Acrididae (Grasshoppers)	
• <u>Celliptamus baiulus</u>	I Tasmania
Plecoptera	
Notonemouridae	
• <u>Kimminsoparla biloba</u>	I Tasmania
• <u>K. williamsi</u>	I Tasmania
Eutheniidae	
• <u>Euthenia nothofagi</u> Otway Stonefly	E Aust (Otways, V)
• <u>Euthenia reticulata</u>	I Tasmania
Gripopterygidae	
• <u>Leptoperla cecuminis</u> Mt Kosciuszko Wingless Stonefly	R Aust (Mt K, NSW)
• <u>Riekoperle darlingtoni</u> Mt Donna Buang Wingless Stonefly	R Aust (Mt DB, V)
Homoptera	
Tettigarctidae	
• <u>Tettigarcta tomentosa</u> (Tasmanian Hairy Cidada)	I Tasmania
Aphididae	
• <u>Ceriferelle leucopogonis</u> (aphid)	I Tasmania (SA, Vic)
Mecoptera (Scorpion Flies)	
Apteropanorpidae	
• <u>Apteropanorpa tasmanica</u> (alpine wingless scorpion fly)	I Tasmania
Diptera	
Mycetophilidae	
• <u>Arachnocampa tasmaniensis</u> (glow worm)	I Tasmania
Blephariceridae	
• <u>Edwardsina gigantea</u> Giant Torrent Midgo	E Aust (NSW)
• <u>E. tasmaniensis</u> Tasmanian Torrent Midgo	E (Tee, Dennison R.)
Trichoptera	
Stenopsychidae	
• <u>Stenopsychodes lineata</u>	I Tasmania

Pelycentropedidae	
• <u>Tasmanoplegas spilota</u>	I Tasmania
Limnophilidae	
• <u>Archaeophylax vernalis</u>	I Tasmania
Kokiriidae	
• <u>Taskiria mccubbinii</u>	I Tasmania
• <u>Taskropsyche lacustris</u>	I Tasmania
Plectrotarsidae	
• <u>Nanoplectrus truchanasi</u>	I Tasmania
Philotheriidae	
• <u>Ramiheithrus kocinus</u>	I Tasmania
Leptoceridae	
• <u>Westriplectes peddereasis</u>	I Tasmania
Lepidoptera	
Hepialidae	
• <u>Zelotypia stacyi</u> Beat Wing Swift Moth	V Aust (Qld, NSW)
Hesperidae	
• <u>Antipodia chaostola leucophaea</u> (Chaostola Skipper)	I Tasmania (E coast)
<u>Euschemon rafflosia</u> (Regent Skipper)	K Aust (NSW, Qld)
• <u>Hesperilla mastersi marakupa</u> (Masters Skipper)	I Tasmania (NE)
• <u>Oreispianus munionga larana</u>	I Tasmania (NW)
Lycaenidae	
• <u>Pseudalmenus chlorinda chlorinda</u> (Hairstreak)	I Tasmania (E)
• <u>P. chlorinda conara</u> (Hairstreak)	I Tas (N central)
Nymphalidae	
• <u>Heteronympha cordace comptena</u> (Bright-eyed Brown)	I Tas (W & S)
Geometridae	
• <u>Acalyphea philorites</u>	I Tasmania
• <u>Disce aesiadora</u>	I Tasmania
• <u>D. lunaris</u>	I Tasmania
• <u>D. oriplancta</u>	I Tasmania
• <u>D. solaris</u>	I Tasmania
Hymenoptera	
Formicidae	
• <u>Nothomyrmecia macrops</u> Australian Ant	K Aust (SA, WA)

# CLASS ONYCHOPHORA

## Peripatidae and Peripatopsidae

Peripatus (227 genera)	V Equatorial Tropics South Hemisphere
<u>Dondy sp.</u> (3 species)	I Tasmania
<u>Euperipatoidea sp. nr. leuckartii</u>	I Tasmania
<u>Ooperipatellus insignis</u>	I Tasmania

Species marked with a • are listed by L. Hill and F.B. Michaelis in Conservation of Insects and Related Wildlife, Occ. Paper No. 13, Australian National Parks and Wildlife Service, 1988, as "threatened species listed by survey respondents".

I. Faithfull

## RECENT ARTICLES OF INTEREST

Harriet and Helena Scott, Historical Drawings of Moths and Butterflies. Introduced and selected by Marion Ord. Craftsman House, 1988. \$85.00. The brilliant illustrations of these sisters who died in the first decade of this century are "exquisitely detailed", "scientifically exact", naturally coloured and "represent the finest works of Australian colonial artists".

G.R. Dyne and D.W. Dalton (Eds.), Fauna of Australia Vol. 1A. General Articles. AGPS, Canberra, 1987, 339 pp, \$44.95. Rave review in Aust. Nat. History 22(10):464, Spring 1988.

Geoff Holloway, Banksia beetle. Aust. Natural History 22(10):457 Spring 1988. Full colour photo and colour liftout poster version 56x42 cm of Cyria imperialis on Eucalyptus blossom by Brett Gregory. No new biol. info.

L. Hill and F.B. Michaelis, Conservation of Insects and Related Wildlife. Report on the Australian National Parks and Wildlife Survey of Insect Conservation Needs. Occasional Paper No. 13, ANPWS, Canberra, May 1988, 40 pp. Summary of responses to 1984 circular letter to members Aust. Ent. Soc.. Review of public debate (3pp.), impediments to conservation (4 pp.), list threatened arthropods (5pp.), habitats (4 pp.), causes of decline (5 pp.), concl. (2 pp.), threatened species listed by respondents (7 pp.) refs. and reading list (4 pp.), etc.

Paul Simons, Researchers build atlas of bee's brain. New Scientist 118(1609):35, 21 April. 3D computer atlas derived from chemically stained 10 micrometre sections. 100X more detailed than human brain tomography.

New high for termites. New Scientist 1610:30, 28 Apr. Photo of 6.7 m high, 7 m girth mound at Hayes Creek N.T., probably the largest ever discovered.

Rising sun spells death for unwary insects. New Sci. 118(1611):39, 5 May. New pesticide delta aminolevulinic acid plus modulators absorbed at night. In sunlight the ALA is converted to a chemical which rapidly destroys cell membranes.

Ian Hodgkinson, The hitchhiker's guide to foreign food. New Sci. 1611:47-51, 5 May. Psyllids (Homoptera) have spread rapidly around the world. The mechanisms of dispersal and by which they cause damage. Methods of control, etc. The natural history of the Leucaena psyllid and its spread.

Burning ambitions to introduce the Brimstone. New Scientist 118(1615):25, 2 June. The butterfly Gonepteryx rhamni to Scotland.

Marauding mites threaten havoc in Britain's beehives. New Sci. 1615:39. The predatory mite Varroa jacobsoni which has colonised all continents but Aust. is poised to invade Britain.

Christopher Joyce, Nature helps Indonesia to out its pesticide bill. New Scientist 1617:35, 16 June. Integ. pest mgt. trial in

rice fields using 10 natural predators of the rice planthopper has been so successful that the UN FAO intends to introduce 2.5 million more farmers to the techniques and the Indon. gov. has banned 57 pesticides for ecological reasons.

Pheromones set trap for beetles. New Sci 118(1619):44, 30 June. A new mixture of the sex pheromone of the Larger Grain Borer (Prostophanus truncatus) used for trapping in Tanzania.

Tim Birkhead and Susan Lawrence, Life and loves of a sexual cannibal. New Sci 118(1617):63-6, 16 June. Decapitation is not an essential part of mating and sexual cannibalism is probably an artifact of captivity, but starved females do eat males and may breed more successfully as a result.

Kerri Hartland, Cutworm havoc - NSW offers loans to farmers. Weekly Times 15 June, p.12. 50-80,000 ha around Nyngan affected. A "one-off emergency package" with loans up to \$40,000 at 6% with "the decision not to be considered a precedent for future pest infestations".

Cutworm hits lupins. Weekly Times 15 June p.111. Severe damage to seedlings north of Benalla, Vic.

Kerri Hartland, Cattle industry risk heightened by 44 day delay identifying screw worm flies. Weekly Times 15 Jun. p.53. Probable Callitroga americana (Calliphoridae) were found on a ship in Darwin on April 4 but were not sent to Canberra for pos. identif. for 38 days due to inadequate staffing of the NT gov. dept. The ACT identif. was rapid. The fly did not escape to the mainland. The only places free of the fly are Aust., NZ and some Pacific Is. It lays its eggs in wounds or the nostrils of animals and the larvae attack living tissue.

Spider venom to fight crop pests?. Weekly Times 24 Aug., p.3. Scientists from Deakin Uni. & Dorling Downs Instit. propose to collect and analyse spider venoms, isolate their protein components and incorporate them into insecticides to combat the cotton bollworm (Noctuidae).

Robin Taylor, Control vital for a mite(y) job. Weekly Times 29 June pp.8-9. The essentials of management of predatory mites as control agents of spider mites in orchards. The work of Dr. Lon Readshaw of CSIRO.

Farmers hail curse 'cure'. Weekly Times 3 Aug. pp.3,98. A European moth Dialectica scaloriella which feeds on *Pattersons Curse* was released in the worst affected areas of Victoria in July with the releases to continue through the Spring. Apiarists and some graziers are not happy. A court injunction has stopped CSIRO planned releases of such biological control agents.

G.A. Webb, Some foliage insects of Racosperma longifolia (Andr.) L.Pedley (Mimosaceae) in New South Wales. Victorian Naturalist 105(4):88-90, Jul-Aug. 16 spp. Coleoptera from Acacio longifolia at Nowra and Sydney with notes on feeding; 2 ichneumon wasps.

K.L. Walker, Revision of the Australian species of the genus Homallictus Cockerell (Hymenoptera: Halictidae). Memoirs of the Museum of Victoria 47(2):105-200, 30 May 1986. 39 spp., 10 new. Keys, descriptions. Distrib. patterns, notes on nesting behavior, flowers visited, parasites. Redescription of genus. New gen. Quasilictus. Numerous synonyms identified.

John T. Medler, Types of Flatidae (Homoptera) VIII. Lectotype designations and taxonomic notes on species in the Museum of Victoria. Mem. Mus. Vict. 47(2):207-211. Specimens purchased from Francis Walker during 1861-74 include syntypes of 12 spp. he described and 10 of these were based on specimens collected by A.R. Wallace in the Indo-Malanesian region.

A. Neboiss, Taxonomic changes in caddis-fly species from the south-west Pacific-Australian region with descriptions of new species (Insecta:Trichoptera). Mem.Mus.Vict. 47(2):213-23. Incl. new spp. from Vic.: Agapetus ablusus, collected in Dee R., Millgrove, etc. by A.N., 1976, A. diacanthus, O'Shannassy R., A.N., 1983, Neureclipsis napaea, east central Vic.

J.C. Dean, Two new genera of Leptophlebiidae (Insecta:Ephemeroptera) from south-western Australia. Mem.Mus.Vict. 48(2):91-100, 30 Nov. 1987. Nyungara and Bibulmena for 3 spp. of Mayfly.

Mark S. Harvey, Grymeus, a new genus of pouched conopid spider from Australia (Chelicerata:Araneae). 3 n. spp. G. robertsii & G. yanga from w.Vic & sw NSW, G. barbatus from cent.S.A. Mem.Mus. Vict. 48(2):123-30; minor correction 49(1):58

A. Neboiss, Identity of species of Trichoptera described by K. Korbout 1964-65 (Insecta). Mem.Mus.Vict. 48(2):131-40. Amended taxonomic posits. Indicated, new descripts. and illustrations.

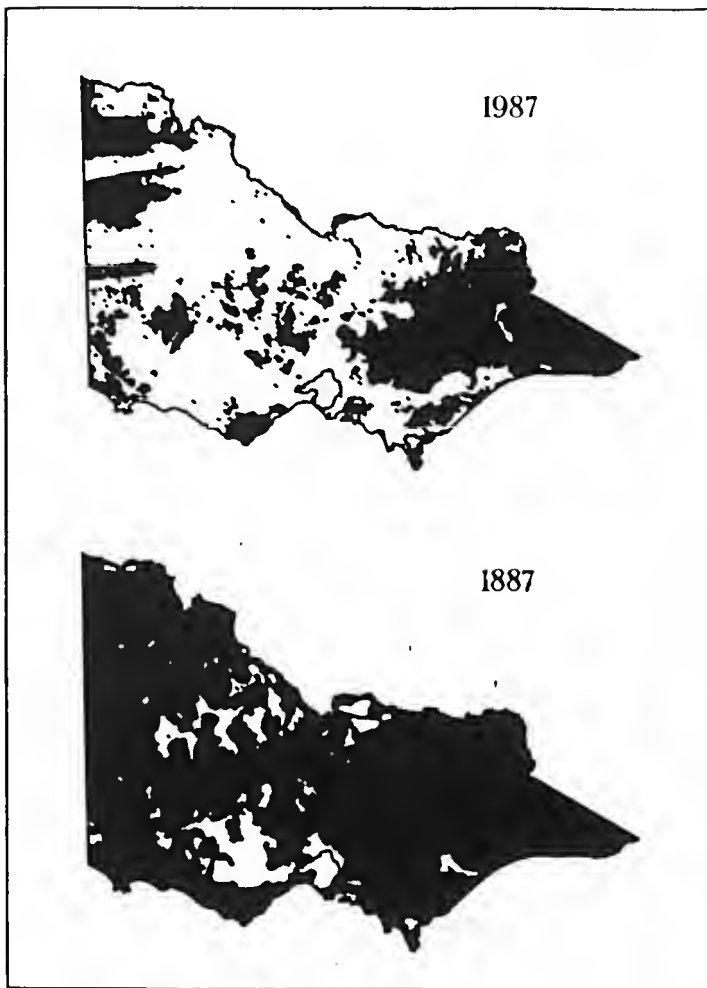
Norman I. Platnick, A new spider of the Gondwanan genus Eilica from Victoria, Australia (Araneae:Gnaphosidae). Mem.Mus.Vict. 49(1):83-4, 31 May 1988. E. mulleroi, 1st Laroniine from Vic, from pitfall traps in the north west.

A.K. Minks & P. Harrewijn, Aphids: Their Biology, Natural Enemies and Control. Volume C of 3 vol. set. Elsevier Science Publishers, 1988, 322 pp., approx \$A169.75. Detailed account of the damage caused by aphids and their control.

Pesticide Fact Handbook, US Environmental Protection Agency, 1988, 827 pp., A\$121.75 approx. Noyes. 130 pesticide fact sheets giving chemical use patterns and formulations, EPA regulatory rationale, toxicology, major data gaps. Cover more than 550 trade named pesticides.

Carlo Ignoffo (Ed.), CRC Handbook of Natural Pesticides Volume V: Microbial Insecticides. CRC Press Inc., c.272 pp, due Oct. 1988. Approx \$A237.50. Entomogenous protozoa and fungi.

Doug Kettle, Entomology beyond the bicentenary. Australian Entomological Society News Bulletin 24(3):supplement. Nature of funding of entomology, recent (1960s +) Aust. history, Aust. scientific societies and their influence, employment, etc.



## FOREST COVER CHANGES IN VICTORIA

JULY 1988

REMOTE SENSING GROUP

ECOLOGICAL POLICY AND RESOURCE ASSESSMENT BRANCH





## ON THE GRAPEVINE

Tim New, after a hectic trip to Malaysia (where the rape of the forests, in Sabah and Sarawak especially, makes East Gippsland look positively pristine) spent 10 days at the Bishop Museum in Honolulu where he worked mainly on Asian Neuroptera and held discussions on insect conservation. Tim has recently been appointed Chair of the International Union for Conservation of Nature and Natural Resources, Species Survival Commission, Lepidoptera Specialist Group. This, he suggests, should keep him out of too much mischief for a bit.

Tim and Ken Welker will be going to Cape York in late October.

Other Queensland visitors will be Joy and Gordon Burns who will depart soon on their annual Australian travels. The Victorian "deserts" will be the first attraction. They plan to visit the Eyre Peninsula, and Townsville and Cairns in January.

Michael Braby will be holidaying in the north west of Victoria in late October where Fabian Douglas will be a companion. Fabian is interested in butterflies and jewel beetles. Michael has been conducting larval counts at Eltham of Pareluia pyrodiscus at night with David Crosby. Still, dry, warm nights are the best, and the largest colonies remain to be surveyed. About \$420,000 has been raised by the Eltham Copper Appeal. Pat Vaughan's report giving final recommendations on colony management is soon to be published.

Andrew Atkins did quite a bit of collecting on a trip through Broken Hill, the south end of the Flinders Ranges, Peterborough, the Grampians and Altona, where he examined the Hesperilla flavescens populations. He spent a few days in Melbourne with his mother and contacted D. Crosby and Mery Le Souëf whose mobility has been badly restricted as a result of her hip injury.

Ray Manskie in Meryborough has not been well.

Bob Fisher stayed with David Crosby for a few days during a visit to Melbourne at the end of August.

David Crosby has been working on his Ocybadistes welkeri paper, seeking information from South Australia, including Mike Moore, Mount Gambier, etc. He has also been conducting a survey for the Department of Conservation, Forests and Lands on the Altona Skipper (flavescens) and is required to come up with a management plan by mid 1989. Current tasks include the counting of larvae and pupae which is damn hard work in the wind and rain of the southern Victorian spring. David has also visited the Ocean Grove Acrodipsas myrmecophila reserve and gave a talk to the management committee on this butterfly, the Small Ant-blue, and recommended methods to ensure its survival. He plans to return to the area in order to locate colonies of the butterfly.

We welcome new members Mr and Mrs Jak Wertz of Kingsbury, Vic. to the Society. Jak is an enthusiastic tyro.

"Early in February, intensive collecting was carried out in the vicinity of Mount Hotham, where a new butterfly record for Victoria was established by the capture of the Alpine Silver Xonica, Orioxenica latinella Wha. and Lyell, hitherto recorded only from Mount Kosciusko in New South Wales."

- National Museum of Victoria Year Book 1948, page 11

### Pondlife poster

The Gould League has recently launched an attractive new poster and stickers which highlight pond-life in Australia.

• For further information and copies contact Mr Peter Gill, Gould League of Victoria, PO Box 446, 67 High Street, Prahran 3181. Telephone (03) 51 1493.



### CONTRIBUTIONS TO THE VICTORIAN ENTOMOLOGIST

The Society welcomes contributions of articles, papers or notes pertaining to any aspect of entomology for publication in the News Bulletin. Contributions are not restricted to members but all are invited from all who have an interest. Material submitted should be responsible and original. Statements and opinions expressed are the responsibility of the respective authors and do not necessarily reflect the policies of the Society.

It is of great assistance if contributions are typed on paper of A4 (International Quarto) size, one and a half spaced with triple spacing between paragraphs and a margin of 3 cm.

### ADVERTISING

The charge for advertising is \$5.00 per half page.

DEADLINE FOR THE NEXT ISSUE IS Friday 18 NOVEMBER

The Victorian Entomologist continues to be produced at the Standards Association of Australia Printery, Clunios Ross House, 191 Roynl Parade, Parkville. Thanks to Irma for doing the work.

## CONTENTS

Minutes of the General Meeting 19 August	78
Minutes of the Council Meeting 16 September	79
Notice of Extra-ordinary General Meeting 9 December	82
Conservation News	83
A Note on Richard Ernest Trebilcock, 1880-1976 by D. Crosby	84
A Note on the Rare Butterfly from Bauple by K. Dunn	85
Book Review - Australian Tropical Butterflies	86
Big Desert 3 to 7 November 1984. Part 3. by I. Faithfull	87
More Butterflies from Yanakie and Corrections	89
Butterflies and Mythology No. 7 by J. Brown	89
1988 IUCN Red List of Threatened Animals	90
Recent Articles of Interest	93
On the Grapevine	97

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Excursions Secretary	- Peter Carwardine, 2a Victoria Road, Malvern, 3144. 211 8958 (AH)
Past President	- Joy Burns
Councillors	- Michael Braby, David Crosby, Julie Field, Peter Kelly

## DIARY OF COMING EVENTS

Friday 21 October, 8 pm	- <u>GENERAL MEETING. Mark Harvey:</u> <u>AUSTRALIAN WATER MITE TALES</u>
18 November	- Council Meeting
9 December	- General Meeting. Members' Night. Potential contributors please contact Ken Walker.
February 1989	- General Meeting. Gordon Berg.
April	- General Meeting. Members' Short Talks.

Scientific names contained in this document are not intended for permanent scientific record, and are not published for the purposes of nomenclature within the meaning of the International Code of Zoological Nomenclature, Article 8(b). Contributions are not refereed, and authors alone are responsible for the views expressed.



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